

What is claimed is:

1. A production apparatus for a monolayer powder film on a base material in a shape of an elongated film comprising:

an unwinding device for unwinding and feeding a base material in a shape of an elongated film;

a winding device for winding said base material;

an adhering device for adhering powder particles to an adhesive layer provided on said base material;

an embedding device for embedding said powder particles into said adhesive layer; and

a removing device for removing excess powder particles, and

wherein said monolayer powder film is continuously produced by embedding said powder particles on the surface of said adhesive layer provided on said base material as a monolayer, so that part of said powder particle protrudes.

2. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 1, further comprising a peeling device for peeling a separatable substrate before said adhering device.

3. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 2, wherein said peeling device comprises a heating roll for heating said adhesive layer.

4. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 2, wherein

said peeling device peels said separatable substrate at a specific uniform speed and at a specific angle.

5. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 1, wherein said adhering device comprises a mechanism for fluidizing said powder particles.

6. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 1, wherein said adhering device comprises:

- a container for receiving said powder particles;

- a transfer roll for adhering said powder particles;

- a device for feeding said powder particles in a specific amount to said transfer roll; and

- a supporting member for contacting and transferring said powder particles, which are adhered to said transfer roll, to said adhesive layer provided on said base material.

7. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 1, wherein said adhering device comprises:

- a container for receiving said powder particles;

- a magnetic brush for adhering said powder particles;

- a device for feeding said powder particles in a specific amount to said magnetic brush; and

- a supporting member for contacting and transferring said powder particles, which are adhered to said magnetic brush, to said adhesive layer

provided on said base material.

8. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 7, wherein said magnetic brush consists of spikes formed on the surface of a magnetic roll including a magnet, and said device for feeding said powder particles is a mechanism in which said powder particles are adhered to the surface of carrier particles by rotation of said magnetic roll.

9. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 6, wherein said device for feeding powder particles comprises a feeding member and a layer thickness controlling member.

10. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 7, wherein said device for feeding powder particles comprises a feeding member and a layer thickness controlling member.

11. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 6, wherein said supporting member is a roll.

12. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 7, wherein said supporting member is a roll.

13. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 1, wherein said embedding device comprises a mechanism for vibrating media.

14. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 1, wherein said removing device is a dry-type cleaning mechanism.

15. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 1, wherein said removing device comprises a water cleaning mechanism and a drying mechanism.

16. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 1, wherein said unwinding unwinds and feeds a base material, which is provided with an adhesive layer on at least one surface thereof and which is wound.

17. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 1, wherein said winding device winds a base material on which said monolayer powder film is formed.

18. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 1, wherein said embedding device comprises:

a container which vibrates at least in the thickness direction of said base material while maintaining a state which is parallel to the width direction of said base material;

media filled in said container; and

a supporting member for contacting with said base material, for guiding said base material into said media, and for supporting impulsive force occurring due to vibration of said container, and

wherein said impulsive force extending in the width direction is added from the thickness direction of said base material using said media.

19. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 18, wherein said container has a sectional shape which is uniform in the width direction of said base material.

20. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 18, further comprising a guide member for guiding said base material to the vicinity of said supporting member.

21. The production apparatus for the monolayer powder film on a base material in a shape of an elongated film in accordance with claim 18, further comprising a device for removing media being inserted between said supporting member and said base material.